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Philosophical Transactions

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*An Account of a small Tract, entituled,
 THOMÆ HOBBS Quadratura Circuli, Cubatio Sphæra, Du-
 plicatio Cubi, (secundò Edita,) Denuò Refutata, Auth.
 JOH. WALLIS. S. T. D. Geom. Prof. Saviliano.
 Oxoniæ, 1669.*

SINCE Mr. *Hobbs* thought himself obliged to make some Re-
 ply to Dr *Wallis's* confutation of what he had, not long since,
 publish't upon this Argument; Dr. *Wallis* made no stay at
 all to return this Answer and second refutation. Concerning
 which we shall give you a brief account, suggested by Dr. *Wal-*
lis himself, of Mr. *Hobbs's* fundamental mistake in his late
 Quadrature of the Circle, referring the Reader to the Tract it-
 self for the *Figure*, which is therein the first.

Mr. *Hobbs*, considering, That, in case it should happen so luck-
 ily (which was not necessary) that QY (the base of a right-
 angled Triangle QYA equal to the Sector LCA , and conse-
 quently the Square $QRST$ equal to the Circle $B CDE$,)
 should, by the Arch CL , be cut just in the midst at P ; then would,
 not only (which to his purpose was necessary) QPL , CPY ,
 be equal each to other (because of $ALPY$ common both to the
 Triangle and the Sector;) but more-over (which was not necessa-
 ry) each of them equal to the half of PAV , (supposing CAV
 taken equal, by construction, to LAP :) all which is true, in case
 of such a lucky hap:

And finding then (which is true also) that this could not All
 happen, unless that intersection at P , were in the line AO (drawn
 from the Center A to the middle of CG ,) because this must needs
 pass through the middle of QY .

Concluded, That it must needs so happen, or else it was impossible
 for Any right-angled Triangle, as QYA (like to, and part of
 GCA ,) to be equal to the Sector LCA : because, in any other, as
 qyA , the intersection of CL and qy at p , would not be just in the
 midst of qy ; and therefore (which he suppos'd necessary, but was
 not) qpA not just the half of qyA .

Not considering (which is his fundamental mistake) that, if
 qPL and CPY be equal each to other (though neither of them be
 equal

equal to the halfe of PAV , or of pAv ; nor yet qp equal to the halfe of qy , nor qpA to the halfe of qyA ; (*the Triangle qyA will be equal to the Sector LCA (because $ALpy$ is common to both;) and like to the Triangle GCA , and a part of it;* which he thought to have been impossible.

Note

WHat in N°. 54. p. 1077. in the *Answ. to Qu. 1.* is said of the Observation of *Briners*, is to be understood, that the Workmen *think* so, that they make more Salt with the same quantity of brine, at the Full Moon, then at other times, though really they do not, as the Answerer Judgeth by his *Observ.* in N°. 53. p. 1064: Who hath since advertis'd, that 'tis possible at times, when the Pit hath been much drawn first, that then, if without intermission they go on *walling* till the *Full*, they may make at that time more Salt, than at another time, it being well known, that much drawing the Pit, strengthens the Brine.

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and are to be sold at the Bell a little without Temple-
Bar, 1670.